

# CPU Cooler *High performance thermal solutions*

Choosing the wrong CPU cooler for a system can lead to serious overheating, resulting in system shutdowns and potential damage to CPUs. For industrial applications, the following CPU coolers fit the needs of various operating environments, where different levels of cooling are required.

| Desktop Core™ CPU Cooler |   |   |  |   |                       |
|--------------------------|---|---|--|---|-----------------------|
|                          |  |  |          |  |                       |
| LGA1155/LGA1156          |   |   |  |   |                       |
| Model Name               | CF-1156A-RS-R11   | CF-1156B-RS   | CF-1156C-RS  | 45W   | CF-1156D-RS           |
| Description              | High performance LGA1155/LGA1156 cooler kit, 1U chassis compatible                | High performance LGA1155/LGA1156 cooler kit                                       | Low power LGA1155/LGA1156 cooler kit for Intel® CPU, 45W, 1U chassis compatible, CCL, RoHS | 65W   |                       |
| CPU Solution             | Intel® Core™ i5/i3  | Intel® Xeon®/Core™ i7/i5/i3   | Intel® Core™ i5/i3   |   | Intel® Core™ i7/i5/i3 |
| Socket Solution          | LGA1155/LGA1156   | LGA1155/LGA1156   | LGA1155/LGA1156  |   | LGA1155/LGA1156       |
| Dimensions (mm)          | 89 x 92.6 x 27.4  | 91 x 91 x 82  | 90 x 90 x 33   |   | 90 x 90 x 33          |
| Material                 | Cu  | Aluminum Alloy  | Al   |   | Cu+Al                 |
| Bearing Type             | Two-ball  | Two-ball  | Two-ball   |   | Two-ball              |
| Capability (Watt)        | 73W   | 95W   | 45W  |   | 65W                   |
| Fan Speed (RPM)          | 5500  | 5000  | 3000   |   | 3000                  |
| Noise Level (dBA)        | 51  | 45  | 33.4   |   | 33.4                  |
| Life Expectancy (hrs)    | 50000   | 70000   | 50000  |   | 50000                 |
| Weight                   | 422g  | 248g  | 192g   |   | 227g                  |

| Mobile Core™ i7 CPU Cooler |   |   | Desktop CPU Cooler   |   |   |
|----------------------------|---|---|--|---|---|
|                            |  |  |  |  |  |
|                            | PGA989  |   | LGA775 Cooler  |   |   |
| Model Name                 | CF-989A-RS-R12  | CF-989B-RS  | CF-775A-RS   | CF-775B-RS-R11  | CF-520-RS-R11   |
| Description                | High performance Socket-G (PGA989) smart fan CPU cooler, RoHS                       | High performance Socket-G (PGA989) CPU cooler, Aluminum, RoHS                       | High performance Two copper pipes LGA 775 CPU cooler, RoHS                           | High performance 1U LGA 775 CPU cooler, w/ 7010 fan, copper, RoHS                     | High performance LGA 775 CPU cooler, RoHS   |
| CPU Solution               | Intel® Core™ i7/i5/i3   | Intel® Core™ i7/i5/i3   | Intel® Core™2 Quad   | Intel® Core™2 Duo   | Intel® Core™2 Duo   |
| Socket solution            | PGA989  | PGA989  | LGA 775  | LGA 775   | LGA 775   |
| Dimensions (mm)            | 60 x 60 x 27.5  | 60 x 60 x 27.6  | 92 x 92 x 73   | 80.5 x 81 x 28.2  | 115 x 115 x 67  |
| Material                   | Cu  | Al  | Cu-Al  | Cu  | Aluminum Alloy  |
| Bearing Type               | Two-ball  | Two-ball  | Rifle  | Two-ball  | Two-ball  |
| Capability (Watt)          | 55W   | 50W   | 130W   | 90W   | 115W  |
| Fan Speed (RPM)            | 4800  | 4800  | 3600   | 4250  | 4500  |
| Noise Level (dBA)          | 40  | 37  | 36.6~39.6  | 40  | 47.5~51.5   |
| Life Expectancy (hrs)      | 50000   | 70000   | 40000  | 50000   | 70000   |
| Weight                     | 255g  | 140g  | 492g   | 600g  | 635g  |

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Panel Solutions Introduction

# CPU Cooler *High performance thermal solutions*

| Desktop CPU Cooler    |   |   |  |   |
|-----------------------|---|---|--|---|
|                       | 115W  | 86W   | 65W  | 86W   |
|                       |  |  |  |  |
| Pentium® 4 Cooler     |   |   |  |   |
| Model Name            | CF-478A-RS  | CF-478B-RS  | CF-478D-RS-R11   | CF-514-RS   |
| Description           | High Performance Copper Socket 478 CPU Cooler, RoHS                               | High Performance Heat Pipes Socket 478 1U CPU Cooler, RoHS                        | Socket 478 1U CPU Cooler   | High Performance Skiving Intel® Pentium® 4 CPU Cooler, RoHS                         |
| CPU Solution          | Intel® Pentium® 4   | Intel® Pentium® 4   | Intel® Pentium® 4 / AMD AM2  | Intel® Pentium® 4   |
| Socket Solution       | Socket 478  | Socket 478  | Socket 478 / Socket AM2 for IEI SBC  | Socket 478  |
| Dimensions (mm)       | 92 x 92 x 67  | 89 x 76 x 26  | 83 x 68.8 x 31.2   | 83 x 70 x 55  |
| Material              | Cu  | Cu-Al   | Cu   | Aluminum Alloy  |
| Bearing Type          | Rifle   | Two-ball  | Two-ball   | Two-ball  |
| Capability (Watt)     | 115W  | 86W   | 65W  | 86W   |
| Fan Speed (RPM)       | 3600  | 4800  | 4800   | 4800  |
| Noise Level (dBA)     | 39.6  | 37  | 37   | 42.4  |
| Life Expectancy (hrs) | 40000   | 40000   | 50000  | 50000   |
| Weight                | 390g  | 204g  | 470g   | 284g  |

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Panel Solutions Introduction

|                       | Mobile CPU Cooler   | Desktop CPU Cooler  | CPU Cooler   |
|-----------------------|---|---|--|
|                       | 50W   | 20W   | 40W  |
|                       |  |  |  |
|                       | Pentium® M Cooler   | Pentium® 3 Cooler   | BLOWER   |
| Model Name            | CF-479B-RS  | CF-518-RS   | CF-370A-RS   |
| Description           | High Performance Socket 479, M and P Intel® Pentium® M CPU Cooler, RoHS             | High Performance Intel® Pentium® M CPU Cooler, RoHS                                 | High Performance Slim Type Socket 370 CPU Cooler, RoHS                               |
| CPU Solution          | Intel® Pentium® M, Core™2 Duo (Mobile)  | Intel® Pentium® M   | Intel® Pentium® 3  |
| Socket Solution       | Socket 479  | Socket 479  | Socket 370   |
| Dimensions (mm)       | 50 x 50 x 26  | 60 x 60 x 26  | 50 x 52 x 20   |
| Material              | Al  | Aluminum Alloy  | Cu-Al  |
| Bearing Type          | Two-ball  | Two-ball  | Two-ball   |
| Capability (Watt)     | 50W   | 20W   | 40W  |
| Fan Speed (RPM)       | 6000  | 5000  | 5500   |
| Noise Level (dBA)     | 39  | 36.1  | 32.1   |
| Life Expectancy (hrs) | 40000   | 50000   | 40000  |
| Weight                | 86g   | 116g  | 62g  |
|                       |   |   | 107.5g   |

# Industrial Flash Module Series (SATA & PATA Interface)

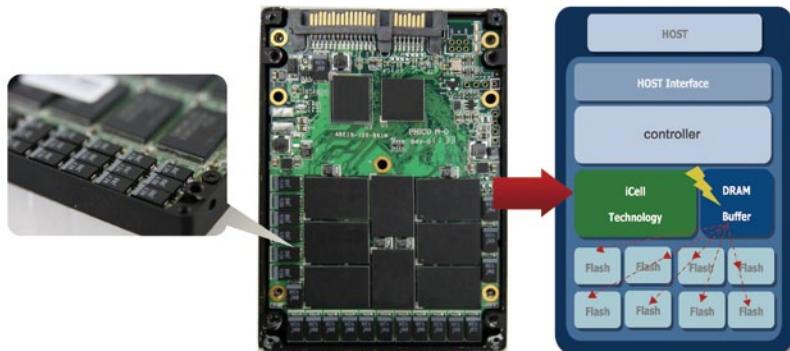
## ■ IEI Industrial SSD Series

IEI IFD series SSD brings you to experience a high level performance. Sequential read/write reaches up to 250 and 200MB per second respectively. Within a DRAM structure in hardware design, IFD-2510AC's performance of random read/write has been enhanced significantly. Therefore, it benefits for systems doing random access, especially while the data size is small. Take 4KB IOPS for an example, IFD-2510AC's random read reaches up to 10000 and random write is up to 2000.

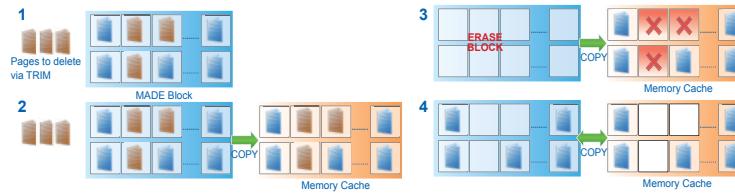
## ■ iCell Technology

Different from other SSD venders, IFD-2510AC is designed within iCell, which developed by the RD team.

iCell makes SSD work well and ensures reliability and accuracy of data transfer. There will be no data loss even when abnormal power failure happens.



## ■ TRIM Function



SSDs are made up of millions of NAND flash cells. They can be written to in groups called pages (generally 4KB in size) but can only be erased in larger groups called blocks (generally 128 pages or 512KB). These stipulations are partially the source of many SSD performance issues.

In a supported OS (e.g. Windows® 7), whenever you permanently delete a file or format your drive, the addresses that are erased are sent along with the TRIM command to the SSD's controller. The TRIM instruction tells the SSD that those locations don't contain valid data and that it no longer has to track them.

| Model Name                    | 2.5" IFD-2510AC  | 2.5" IFD SATA 2510IS  | 2.5" IFD ATA 2500JC   | SATA Slim H   |  |
|-------------------------------|--|---|---|---|--|
| Picture                       |  |   |   |   |  |
| Key Features                  | iCell (UPS) technology, 100% avoid data loss during any unexpected power spikes, dips or failures  | High speed R/W and main stream SLC SSD  | High reliability standard ATA/IDE SSD   | Compliant with 2.5" SSD positioning hole  |  |
| Interface                     | 2.5" SATA 3Gb/s, 7+15P   |   | 2.5" IDE, 44-pin male (2.0mm)   | SATA 3Gb/s, 7+15P   |  |
| Flash Type                    |  | SLC   |   |   |  |
| Capacity (GB)                 | 8G/16G/32G/64G/128G/256G   |   | 8G/16G/32G/64G/128G   | 2G/4G/8G/16G/32G  |  |
| Sequential R/W (Max.)         | 250/200 MB/Sec   | 240/220 MB/Sec  | 85/75 MB/Sec  | 125/120 MB/Sec  |  |
| Power Consumption (Max.)      | 3.5 W (5Vx700mA)   | 2.8 W (5Vx560mA)  | 2W (5Vx400mA)   | 1 W (5Vx200mA)  |  |
| Dimensions (WxLxH)            | 69.85 x 100.1 x 9.30 mm  |   | 69.85 x 100.1 x 9.30 mm   | 50 x 69.2 x 9 mm  |  |
| iCell Support (UPS)           | ✓  | ✗   | ✗   | ✗   |  |
| External Dram Buffer          | ✓  | ✗   | ✗   | ✗   |  |
| Trim                          | ✓  | ✓   | ✗   | ✗   |  |
| Thermal Sensor                | ✓  | ✓   | ✗   | ✗   |  |
| Others                        | S.M.A.R.T. (for Self-Monitoring Analysis and Reporting Technology), ATA Security, Vibration: 20G @7~2000Hz, Shock 1500G @ 0.5ms, Storage Temperature: -55°C~+95°C, MTBF: 1 million hours |   |   |   |  |
| DC Input Voltage              | 5V Single power supply operation   |   |   |   |  |
| P/N                           | STD (0°C~+70°C)  | IFD-2510AC-256GB<br>IFD-2510AC-128GB<br>IFD-2510AC-64GB<br>IFD-2510AC-32GB<br>IFD-2510AC-16GB | IFD-2510IS-256GB-R20<br>IFD-2510IS-128GB-R20<br>IFD-2510IS-64GB-R20<br>IFD-2510IS-32GB-R20<br>IFD-2510IS-16GB-R20<br>IFD-2510IS-8GB-R20 | IFD-2500JC-128GB<br>IFD-2500JC-64GB<br>IFD-2500JC-32GB<br>IFD-2500JC-16GB<br>IFD-2500JC-8GB | SATASLIM-QH-32GB<br>SATASLIM-QH-16GB<br>SATASLIM-QH-8GB<br>SATASLIM-QH-4GB<br>SATASLIM-DH-2GB      |
|                               | WT (-40°C~+85°C)   | IFD-2510AW-256GB<br>IFD-2510AW-128GB<br>IFD-2510AW-64GB<br>IFD-2510AW-32GB<br>IFD-2510AW-16GB | IFD-2510WT-256GB-R20<br>IFD-2510WT-128GB-R20<br>IFD-2510WT-64GB-R20<br>IFD-2510WT-32GB-R20<br>IFD-2510WT-16GB-R20<br>IFD-2510WT-8GB-R20 | IFD-2500JW-128GB<br>IFD-2500JW-64GB<br>IFD-2500JW-32GB<br>IFD-2500JW-16GB<br>IFD-2500JW-8GB | SATASLIM-WQH-32GB<br>SATASLIM-WQH-16GB<br>SATASLIM-WQH-8GB<br>SATASLIM-WQH-4GB<br>SATASLIM-WDH-2GB |
| Operating System support TRIM | Windows® 7, Windows® Server 2008 R2, Linux 2.6.33, OpenSolaris, FreeBSD 8.1/8.3/9.0, DragonFly BSD   |   |   |   |  |

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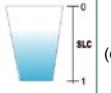
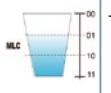
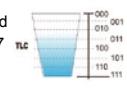
Panel Solutions Introduction

# Interface comparision

|                   | SATA 3Gb/s                        | PATA                                       | PCIe 1.0   | SD                      | USB 2.0    |
|-------------------|-----------------------------------|--|------------|-------------------------|------------|
| Transfer rate     | 3Gb/s                             | UDMA (max.) = 133MB/s                      | 2.5Gb/s    | Class 10<br>10MB/s Min. | 480MB/s    |
| Hot Swap/Hot Plug | ✓                                 |  | ✓          | ✓                       | ✓          |
| Peer to Peer      |                                   |  | ✓          |                         |            |
| IEI Product       | IFD-25X0, IFM-3X00,<br>IPE-5200XM | IFD-2500J, IFM-4400/8800,<br>ICF-1000/8000 | IPE-5200XP | ISD-1000, MSD-1000      | IPE-5200XU |

# Industrial Flash Module Series (SATADOM)

## ■ SLC vs MLC vs TLC

|                        | SLC Single Level  | MLC Multi Level  | TLC Triple Level   |
|------------------------|---|--|--|
| Array Performance      | Read Page: 25µs<br>Program Page: 230µs<br>Erase Block: 700µs  | Read Page: 50µs<br>Program Page: 900µs<br>Erase Block: 3ms   | N/A  |
| Architecture           | SLC Flash has only two states:<br>erased (empty) or Programmed (full).<br> | MLC Flash has four states: erased<br>(empty), 1/3, 2/3, and programmed (full).<br> | TLC Flash has eight states: erased<br>(empty), 1/7, 2/7, 3/7, 4/7, 5/7, 6/7<br>and programmed (full).<br> |
| Read/Write             | Faster  | Faster   | Slower   |
| Power Consumption      | Lower   | Lower  | Higher   |
| Endurance (P/E Cycles) | 100K  | 1~3K   | Under 500  |
| Data Retention         | 10 Years  | 5~8 Years  | Under 3 Year   |
| Cost                   |   | TLC > MLC > SLC  |  |
| Density                |   | SLC > MLC > TLC  |  |
| Application            | 1. IPC, embedded, automation<br>2. Commercial application   | 1. POS, Kiosk system<br>2. Commercial application  | 1. Consumer application<br>2. MP3, Pen-Drive   |

## ■ SATADOM-iFM 3000/3300 Series

| Model Name               | IFM-3300   |  | IFM-3000  |  | IFM-3000   |   |  |
|--------------------------|--|--|---|--|--|---|--|
| Picture                  |   |                           |                                |    |   |    |  |
| Key Features             | Vertical, High Speed   | Horizontal, High Speed   | Vertical, Low Profile SATADOM   | Horizontal, Short SATADOM  | Vertical, Slim SATADOM   | Horizontal, Slim SATADOM  |  |
| Interface & Flash Type   | SATA 3Gb/s (SLC)   |  |   |  |  |   |  |
| Capacity (GB)            | 2G/4G/8G/16G/32G   |  | 128M/256M/512M/1G/2G/4G/8G  |  |  |   |  |
| Sequential R/W (Max.)    | 130/125 MB/Sec   |  | 68/63 MB/Sec  |  |  |   |  |
| Power Consumption (Max.) | 1 W (5V@200 mA)  |  | 0.83W (5V@166 mA)   |  |  |   |  |
| Dimensions (WxLxH)       | 25 x 39.4 x 6.5mm  | 30 x 40 x 11.4 mm  | 29.5 x 32.5 x 8 mm  | 20.3 x 30 x 11.4 mm  | 20.9 x 39.55 x 7.9 mm  | 18 x 30.3 x 11.4 mm   |  |
| White Protect            | ✓  |  |   |  |  |   |  |
| Thermal Sensor           | ✓  |  |   |  |  |   |  |
| Others                   | S.M.A.R.T. (for Self-Monitoring Analysis and Reporting Technology), ATA Security, Vibration: 20G @7~2000Hz, Shock: 1500G @ 0.5ms, Storage Temperature: -55°C~+95°C |  |   |  |  |   |  |
| P/N                      | STD (0°C~+70°C)  | IFM-3300IS-32GB-R20<br>IFM-3300IS-16GB-R20<br>IFM-3300IS-8GB-R20<br>IFM-3300IS-4GB-R20<br>IFM-3300IS-2GB-R20 | IFM-3300IPS-32GB-R20<br>IFM-3300IPS-16GB-R20<br>IFM-3300IPS-8GB-R20<br>IFM-3300IPS-4GB-R20<br>IFM-3300IPS-2GB-R20 | IFM-3000IL(X)S-8GB-R20<br>IFM-3000IL(X)-4GB-R20<br>IFM-3000IL(X)S-2GB-R20<br>IFM-3000IL(X)S-1GB-R20<br>IFM-3000IL(X)S-512MB-R20<br>IFM-3000IL(X)S-256MB-R20<br>IFM-3000IL(X)S-128MB-R20  | IFM-3000IS-8GB-R20<br>IFM-3000IS-4GB-R20<br>IFM-3000IS-2GB-R20<br>IFM-3000IS-1GB-R20<br>IFM-3000IS-512MB-R20<br>IFM-3000IS-256MB-R20<br>IFM-3000IS-128MB-R20 | IFM-3000IPS-8GB-R20<br>IFM-3000IPS-4GB-R20<br>IFM-3000IPS-2GB-R20<br>IFM-3000IPS-1GB-R20<br>IFM-3000IPS-512MB-R20<br>IFM-3000IPS-256MB-R20<br>IFM-3000IPS-128MB-R20 |  |
|                          |  | IFM-3300WS-32GB-R20<br>IFM-3300WS-16GB-R20<br>IFM-3300WS-8GB-R20<br>IFM-3300WS-4GB-R20<br>IFM-3300WS-2GB-R20 | IFM-3300WPS-32GB-R20<br>IFM-3300WPS-16GB-R20<br>IFM-3300WPS-8GB-R20<br>IFM-3300WPS-4GB-R20<br>IFM-3300WPS-2GB-R20 | IFM-3000WL(X)S-8GB-R20<br>IFM-3000WL(X)S-4GB-R20<br>IFM-3000WL(X)S-2GB-R20<br>IFM-3000WL(X)S-1GB-R20<br>IFM-3000WL(X)S-512MB-R20<br>IFM-3000WL(X)S-256MB-R20<br>IFM-3000WL(X)S-128MB-R20 | IFM-3000WS-8GB-R20<br>IFM-3000WS-4GB-R20<br>IFM-3000WS-2GB-R20<br>IFM-3000WS-1GB-R20<br>IFM-3000WS-512MB-R20<br>IFM-3000WS-256MB-R20<br>IFM-3000WS-128MB-R20 | IFM-3000WPS-8GB-R20<br>IFM-3000WPS-4GB-R20<br>IFM-3000WPS-2GB-R20<br>IFM-3000WPS-1GB-R20<br>IFM-3000WPS-512MB-R20<br>IFM-3000WPS-256MB-R20<br>IFM-3000WPS-128MB-R20 |  |

IFM-3000IL(X)S; X: V, P  
IFM-3000WL(X)S; X: V, P

# Industrial Flash SATA & PCIe Module Series

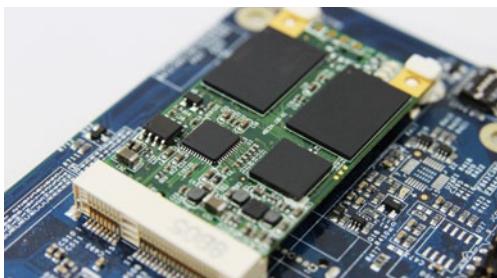
| SATA SLIM                |   |
|--------------------------|---|
| Picture                  |  |
| Key Features             | JEDEC MO-297  |
| Interface                | SATA 3Gb/s, 7+15P   |
| Capacity (GB)            | 2G/4G/8G/16G/32G  |
| Sequential R/W (Max.)    | 125/120 MB/Sec  |
| Power Consumption (Max.) | 1 W (5V@200 mA)   |
| Dimensions (WxLxH)       | 29.85 x 50.8 x 3.5 mm   |
| Thermal Sensor           | Yes   |

| SATASILM        |   |
|-----------------|---|
| SATASILM-Q-32GB | SATA interface 0°C ~ 70°C<br>R: 130MB/s W: 125MB/s four channels 32GB |
| SATASILM-Q-16GB | SATA interface 0°C ~ 70°C<br>R: 130MB/s W: 125MB/s four channels 16GB |
| SATASILM-Q-8GB  | SATA interface 0°C ~ 70°C<br>R: 86MB/s W: 72MB/s four channels 8GB    |
| SATASILM-Q-4GB  | SATA interface 0°C ~ 70°C<br>R: 93MB/s W: 38MB/s four channels 4GB    |
| SATASILM-D-2GB  | SATA interface 0°C ~ 70°C<br>R: 47MB/s W: 16MB/s dual channel 2GB     |

| SATASILM W/T     |   |
|------------------|---|
| SATASILM-WQ-32GB | SATA interface -40°C ~ 85°C<br>R: 130MB/s W: 125MB/s four channels 32GB |
| SATASILM-WQ-16GB | SATA interface -40°C ~ 85°C<br>R: 130MB/s W: 125MB/s four channels 16GB |
| SATASILM-WQ-8GB  | SATA interface -40°C ~ 85°C<br>R: 86MB/s W: 72MB/s four channels 8GB    |
| SATASILM-WQ-4GB  | SATA interface -40°C ~ 85°C<br>R: 93MB/s W: 38MB/s four channels 4GB    |
| SATASILM-WD-2GB  | SATA interface -40°C ~ 85°C<br>R: 47MB/s W: 16MB/s dual channel 2GB     |

## The PCIe Mini DOM Advantages



The PCIe Mini DOM designed for industrial PCs and embedded systems features standard PCI Express Mini interface, driverless and plug & play capabilities.

- Standard PCI Express
- Plug & Play
- Driverless
- 2GB~64GB within SLC flash
- Supports Windows® XP Embedded, Windows® 7 Embedded
- Customized function support



|                                  | mSATA                                  | PCIe Mini DOM                                  | mini DOM-U                     |
|----------------------------------|--|--|--------------------------------|
| Form Factor                      |  | PCIe Mini                                      |                                |
| Transfer Protocol                | SATA II                                | PCIe 1.0x1                                     | USB 2.0                        |
| Data Transfer Rate Max.          | 600 MB/Sec.                            | 500 MB/Sec.                                    | 60 MB/Sec.                     |
| Standard                         |  |  |                                |
| Compatible with PCIe Mini Pinout |  | ✓  | ✓                              |
| Pin Definition                   | Pin 23/25-Tx+/TX-<br>Pin 31/33-RX-/RX+ | Pin 23/25-PERn0/PERp0<br>Pin 31/33-PERn0/PERp0 | Pin 36-USB_D-<br>Pin 36-USB_D+ |
|                                  | IPE-5200IM                             | IPE-5200IP                                     | IPE-5200IU                     |

| Model Name               |                 | IPE-5200IM   | IPE-5200IP  | IPE-5200IU  |
|--------------------------|-----------------|--|---|---|
| Picture                  |                 |  |   |   |
| Key Features             |                 | High-performance with small form factor  | High Speed & Capacity, W/O Driver   | PCIe Interface with USB 2.0 Protocol  |
| Interface                |                 | SATA 3Gb/s   | PCI Express 1.0   | USB 2.0   |
| Capacity (GB)            |                 | 2G/4G/8G/16G/32G   | 2G/4G/8G/16G/32G/64G  | 2G/4G/8G/16G/32G  |
| Sequential R/W (Max.)    |                 | 150/140 MB/Sec   | 135/120 MB/Sec  | 30/20 MB/Sec  |
| Power Consumption (Max.) |                 | 0.66W (3.3V@200mA)   | 1.09W (3.3V@330mA)  | 0.41W (3.3V@125mA)  |
| Dimensions (WxLxH)       |                 | 29.85 x 50.8 x 3.5mm   | 29.85 x 50.8 x 6.8 mm   | 29.85 x 50.8 x 3.3 mm   |
| White Protect            |                 | optional   | optional  | x   |
| Others                   |                 | S.M.A.R.T. (for Self-Monitoring Analysis and Reporting Technology), ATA Security, Vibration: 20G @7~2000Hz, Shock: 1500G @ 0.5ms, Storage Temperature: -55°C~+95°C |   |   |
| P/N                      | STD (0°C~+70°C) | IPE-5200IM-32G<br>IPE-5200IM-16G<br>IPE-5200IM-8G<br>IPE-5200IM-4G<br>IPE-5200IM-2G  | IPE-5200IP-64G-R20<br>IPE-5200IP-32G-R20<br>IPE-5200IP-16G-R20<br>IPE-5200IP-8G-R20<br>IPE-5200IP-4G-R20<br>IPE-5200IP-2G-R20 | IPE-5200IU-32G-R20<br>IPE-5200IU-16G-R20<br>IPE-5200IU-8G-R20<br>IPE-5200IU-4G-R20<br>IPE-5200IU-2G-R20 |
|                          |                 | IPE-5200WM-32G<br>IPE-5200WM-16G<br>IPE-5200WM-8G<br>IPE-5200WM-4G<br>IPE-5200WM-2G  | IPE-5200WP-64G-R20<br>IPE-5200WP-32G-R20<br>IPE-5200WP-16G-R20<br>IPE-5200WP-8G-R20<br>IPE-5200WP-4G-R20<br>IPE-5200WP-2G-R20 | IPE-5200WU-32G-R20<br>IPE-5200WU-16G-R20<br>IPE-5200WU-8G-R20<br>IPE-5200WU-4G-R20<br>IPE-5200WU-2G-R20 |

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Panel Solutions Introduction

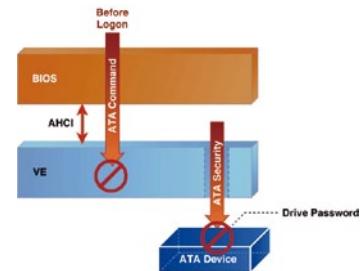
# Industrial Flash Module Series (IDE Interface)

## ■ What's ATA Security?

The optional ATA Security Mode feature set is a password system that restricts access to user data stored on a device. The purpose is to:

- protect the storage for illegal access;
- prevent the unauthorized set of a new password (by a Virus or other malware).

When the security system is enabled, access to user data on the device is denied after a power cycle until the password is sent to the device with the SECURITY UNLOCK command.



## ■ Industrial IDE Flash Module

| Model Name                         | iCF 8000  | iCF 1000+   |   | IFM 8800  | IFM 4400   |   |   |
|------------------------------------|---|---|---|---|--|---|---|
| Picture                            |   |   |   |   |  |   |   |
| Capacity                           | 2GB~8GB   | 128MB~32GB  | 128MB~16GB  | 256MB~8GB   | 2GB~8GB  |   |   |
| Interface                          | 50-pin CompactFlash®                                | 50-pin CompactFlash®                                | 50-pin CompactFlash®  | 44-pin IDE/ATA  | 44-pin IDE/ATA   |   |   |
| IDE Transfer Mode                  | PIO mode 0-4<br>MwDMA mode 0-4<br>UltraDMA mode 0-7 | PIO mode 0-4<br>MwDMA mode 0-4<br>UltraDMA mode 0-4 | PIO Mode 0-6<br>MwDMA Mode 0-4<br>UltraDMA Mode 0-4   | PIO mode 0-6<br>MwDMA mode 0-4<br>UltraDMA mode 0-7   | PIO mode 0-4<br>MwDMA mode 0-4<br>UltraDMA mode 0-6  |   |   |
| Operation Temp.                    | 0°C~+70°C (Standard) /-40°C~+85°C (Industrial)      |   |   |   |  |   |   |
| Storage Temp.                      | -55°C~+95°C   |   | -40°C~+100°C  |   | -55°C~+95°C  |   |   |
| Humidity                           | 10%-95% non-condensing                              |   |   |   |  |   |   |
| Vibration/Shock (7/2000Hz)/(0.5ms) | 1500G/0.5ms   |   | 1500G/0.5ms   |   | 1500G/0.5ms  |   |   |
| DC Power Input                     | ICF:+3.3V+5V single power supply operation          |   | Supply voltage: 3.3V & 5V   |   | ICF:+3.3V+5V single power supply operation   |   |   |
| Power Mode                         | Auto Stand-by and sleep mode                        |   |   |   |  |   |   |
| Power Consumption (Max.)           | 1.05W (5V@210mA)                                    |   | 95 mA   |   | 1.05W (5V@210mA)   |   |   |
| Dimensions (WxLxH) (mm)            | 36.4 x 42.8 x 3.3                                   | 36.4 x 42.8 x 3.3                                   | 36.4 x 42.8 x 3.3   |   | 44-pin: 27.8 x 50.3 x 5.8   44-pin: 27.8 x 50.3 x 5.8  |   |   |
| ATA Security                       | Yes   | Yes   |   |   | Yes   Yes  |   |   |
| P/N                                | STD (0°C~+70°C)                                     | ICF-8000CD-8GB<br>ICF-8000CD-4GB<br>ICF-8000CD-2GB  | ICF-1000IPD-32GB<br>ICF-1000IPD-16GB<br>ICF-1000IPD-8GB<br>ICF-1000IPD-4GB<br>ICF-1000IPD-2GB<br>ICF-1000IPS-2GB<br>ICF-1000IPD-1GB<br>ICF-1000IPS-1GB<br>ICF-1000IPS-512MB<br>ICF-1000IPS-256MB<br>ICF-1000IPS-128MB | ICF-1000IAS-128MB<br>ICF-1000IAS-256MB<br>ICF-1000IAS-512MB<br>ICF-1000IAS-1GB<br>ICF-1000IAS-2GB<br>ICF-1000IAS-16GB | ICF-1000IAD-256MB<br>ICF-1000IAD-512MB<br>ICF-1000IAD-1GB<br>ICF-1000IAD-2GB<br>ICF-1000IAD-4GB<br>ICF-1000IAD-8GB | IFM-4400IPD-16GB<br>IFM-4400IPD-8GB<br>IFM-4400IPD-4GB<br>IFM-4400IPD-2GB<br>IFM-8800CD-8GB<br>IFM-8800CD-4GB<br>IFM-8800CD-2GB                             | IFM-4400IPS-512MB<br>IFM-4400IPS-256MB<br>IFM-4400IPS-128MB |
|                                    |   |   | ICF-1000WPD-32GB<br>ICF-1000WPD-16GB<br>ICF-1000WPD-8GB<br>ICF-1000WPD-4GB<br>ICF-1000WPD-2GB   | ICF-1000WAS-128MB<br>ICF-1000WAS-256MB<br>ICF-1000WAS-512MB<br>ICF-1000WAS-1GB<br>ICF-1000WAS-2GB<br>ICF-1000WAS-16GB | ICF-1000WAD-256MB<br>ICF-1000WAD-512MB<br>ICF-1000WAD-1GB<br>ICF-1000WAD-2GB<br>ICF-1000WAD-4GB<br>ICF-1000WAD-8GB |   |   |
| P/N                                | WT (-40°C~+85°C)                                    | ICF-8000WD-8GB<br>ICF-8000WD-4GB<br>ICF-8000WD-2GB  | ICF-1000WPS-512MB<br>ICF-1000WPS-256MB<br>ICF-1000WPS-128MB   | ICF-1000WAD-256MB<br>ICF-1000WAD-512MB<br>ICF-1000WAD-1GB<br>ICF-1000WAD-2GB<br>ICF-1000WAD-4GB<br>ICF-1000WAD-8GB    | IFM-8800WD-8GB<br>IFM-8800WD-4GB<br>IFM-8800WD-2GB   | IFM-4400WPS-16GB<br>IFM-4400WPS-8GB<br>IFM-4400WPS-4GB<br>IFM-4400WPS-2GB<br>IFM-4400WPS-1GB<br>IFM-4400WPS-512MB<br>IFM-4400WPS-256MB<br>IFM-4400WPS-128MB | IFM-4400WPS-512MB<br>IFM-4400WPS-256MB<br>IFM-4400WPS-128MB |

## ■ Industrial SD/microSD card

- Compatible with SD 1.x/2.0 specification
- Excellent data transfer rate
- Support wear-leveling algorithm
- Built-in ECC function
- Support Content Protection for Recordable Media (CPRM)
- Support auto-standby, power-off and sleep mode
- Support S.M.A.R.T function
- Auto Data Refresh prevents read disturbance

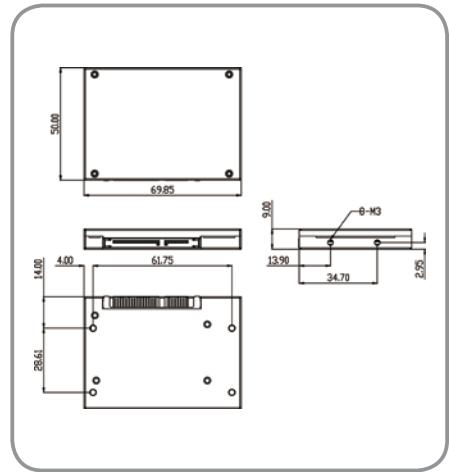
| Item                                 | IEI Industrial SD | Consumer SD |
|--------------------------------------|-------------------|-------------|
| Flash Type                           | SLC / MLC         | MLC / TLC   |
| Operation Temperature                | -40°C~85°C        | -25°C~85°C  |
| Product Longevity Supply (fixed BOM) | Yes               |             |
| Sequential R/W Performance (MB/s)    | 20 / 16           | 18 / 13     |
| Technical Support                    | Yes               |             |
| Power Cycling Enhanced               | Over 3,000 cycles |             |
| S.M.A.R.T                            | Support           |             |

| Model Name               | Industrial SD card  |  | Industrial microSD card                               |   |
|--------------------------|---|--|---|---|
| Picture                  | 8GB   |  | 4GB micro SLC   |   |
| Key Features             | Support S.M.R.R.T & Data Refresh function   |  |   |   |
| Interface                | SD 1.x / 2.0  |  |   |   |
| Capacity (GB)            | 128M/256M/512M/1G/2G/4G/8G  |  | 1G/2G/4G  |   |
| Sequential R/W (Max.)    | 20/16 MB/Sec  |  | 20/14 MB/Sec  |   |
| Power Consumption (Max.) | 0.2W (3.3V@60mA)  |  | 0.17W (3.3V@50mA)                                     |   |
| Dimensions (WxLxH) (mm)  | 24 x 32 x 2.1   |  | 11 x 15 x 1   |   |
| White Protect            | ✓   |  | ✗   |   |
| Others                   | S.M.A.R.T. (for Self-Monitoring Analysis and Reporting Technology)<br>Vibration: 5G @7~2000Hz, Shock: 50G @ 10ms,<br>Storage Temperature: -55°C~+95°C |  |   |   |
| P/N                      | STD (0°~+70°C)  | ISD-1000I-8GB<br>ISD-1000I-4GB<br>ISD-1000I-2GB<br>ISD-1000I-1GB | ISD-1000I-512MB<br>ISD-1000I-256MB<br>ISD-1000I-128MB | MSD-1000I-4GB<br>MSD-1000I-2GB<br>MSD-1000I-1GB |
|                          |   | ISD-1000W-8GB<br>ISD-1000W-4GB<br>ISD-1000W-2GB<br>ISD-1000W-1GB | ISD-1000W-512MB<br>ISD-1000W-256MB<br>ISD-1000W-128MB | MSD-1000W-4GB<br>MSD-1000W-2GB<br>MSD-1000W-1GB |

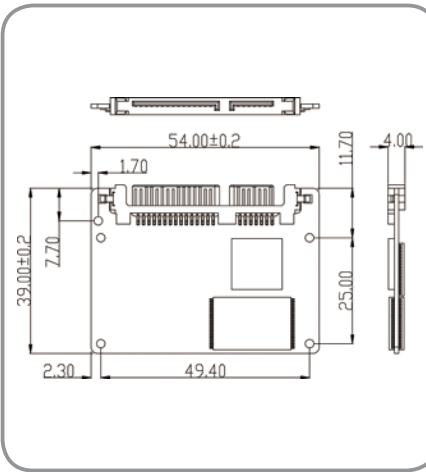
# IEI Industrial Flash Module Series

## ■ Dimension Drawing

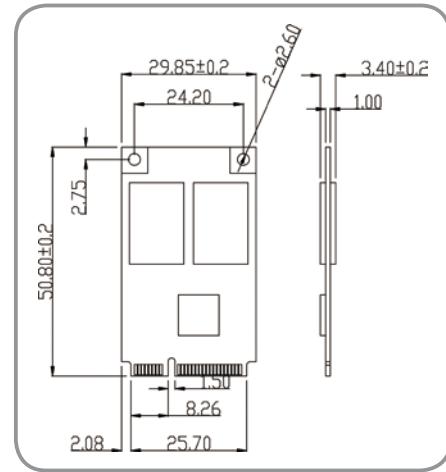
**SATA Slim with Compliant**



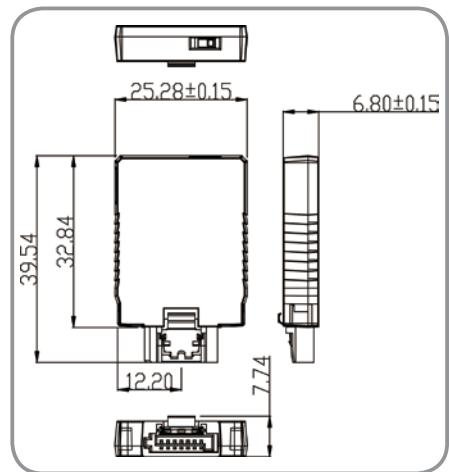
**SATA Slim**



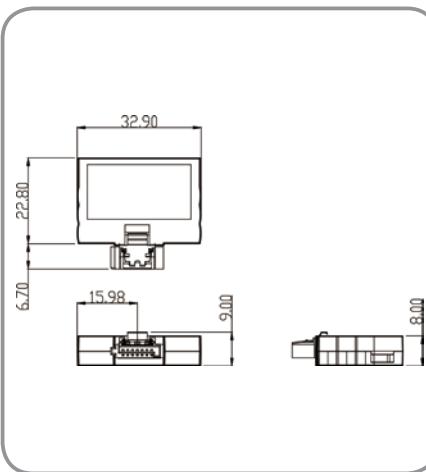
**Mini PCIe DOM**



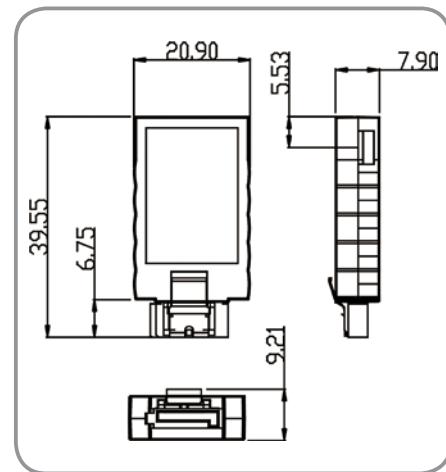
**IFM-3300IS  
IFM-3300WS**



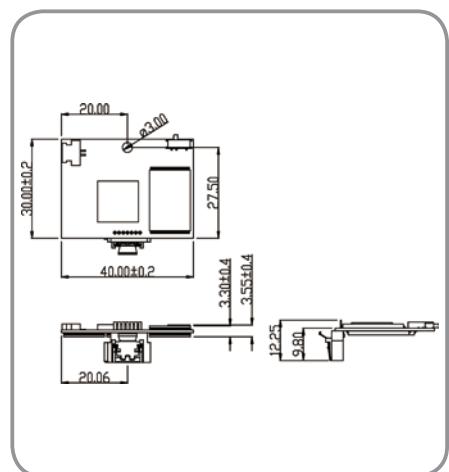
**IFM-3300ILVS  
IFM-3300WLVS**



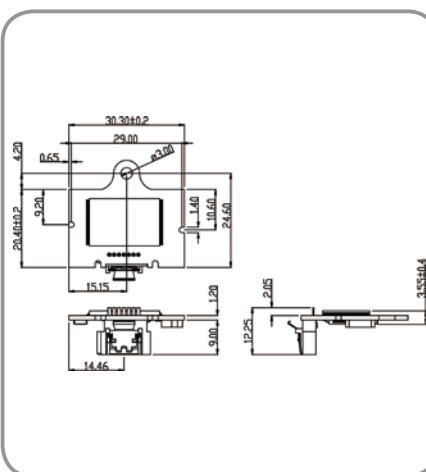
**IFM-3000IS  
IFM-3000WS**



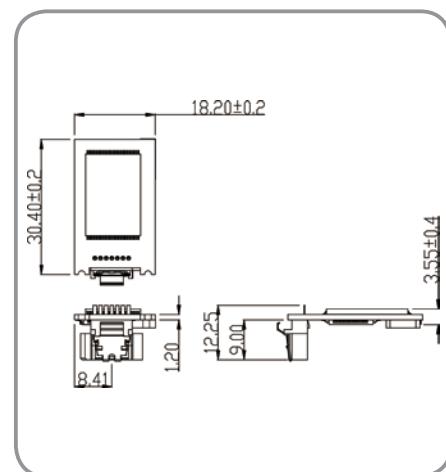
**IFM-3300IPS  
IFM-3300WPS**



**IFM-3300ILPS  
IFM-3300WLPS**



**IFM-3000IPS  
IFM-3000WPS**



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Introduction

# Ensuring The Best System Performance

## ■ DDR3 1.35V iDIMM

### Features

- Low Power
- Major on 3rd
- Thermal Sensor Design Ready
- 100% System Level Test

### DDR3 1.35V iDIMM

|              |          |       |
|--------------|----------|-------|
| Module Speed | 1333 MHz | 1.35V |
| DIMM         | 240-pin  |       |
| SO-DIMM      | 204-pin  |       |
| CAS Latency  | CL9      |       |

### iDIMM + SO-DIMM



### Long-DIMM



### Ordering Information

| 1.35V DDR3 SO-DIMM | Description                        |
|--------------------|------------------------------------|
| 79B00-G002-013-RS  | DDR3 1333 2GB SO-DIMM CL9 256M*8   |
| 79B00-G004-008-RS  | DDR3 1333 4GB SO-DIMM CL9 256M*8   |
| 1.35V DDR3 DIMM    | Description                        |
| 79A00-G002-016-RS  | DDR3 1333 2GB LONG-DIMM CL9 256M*8 |
| 79A00-G004-011-RS  | DDR3 1333 4GB LONG-DIMM CL9 256M*8 |



## ■ Complete product line of Industrial

*IEI provide complete product line of industrial Features*

- Refresh → TREFI=7.8ms from -40°C~+85°C
- 30ms Gold Finger
- Stern Test of parameter
- High reliability

-40°C~+85°C  
Wide Temp.  
Available



## DDR W/T Solution

### DDR SO-DIMM

|              |         |
|--------------|---------|
| Module Speed | 400 MHz |
| DIMM         | 184-pin |
| SO-DIMM      | 200-pin |
| CAS Latency  | CL3     |



### DDR DIMM (Low Profile)



## Ordering Information

| DDR SO-DIMM W/T   | Description                                |
|-------------------|--|
| 79300-M512-082-RS | DDR 400 512MB SO-DIMM CL3 32M*16           |
| 79300-M256-067-RS | DDR 400 256MB SO-DIMM CL3 32M*16           |
| DDR DIMM W/T      | Description                                |
| 79300-G001-058-RS | DDR 400 1GB DIMM CL3 64M*8                 |
| 79300-M512-082-RS | DDR 400 512MB DIMM CL3 64M*8 (Low profile) |

### DDR Long-DIMM



## DDR2 W/T Solution

### DDR2 SO-DIMM

|              |         |
|--------------|---------|
| Module Speed | 667 MHz |
| DIMM         | 240-pin |
| SO-DIMM      | 200-pin |
| CAS Latency  | CL5     |



### DDR2 DIMM (Low Profile)



## Ordering Information

| DDR2 SO-DIMM W/T  | Description                      |
|-------------------|----------------------------------|
| 79900-G001-044-RS | DDR2 667 1GB SO-DIMM CL5 64M*8   |
| 79900-M512-025-RS | DDR2 667 512MB SO-DIMM CL5 64M*8 |

| DDR2 DIMM W/T     | Description                                      |
|-------------------|--|
| 79800-M512-022-RS | DDR2 667 512MB Long-DIMM CL5 64M*8 (Low profile) |

## DDR3 W/T Solution

### DDR3 SO-DIMM

|              |          |
|--------------|----------|
| Module Speed | 1333 MHz |
| DIMM         | 240-pin  |
| SO-DIMM      | 240-pin  |
| CAS Latency  | CL9      |



### DDR3 Long-DIMM



## Ordering Information

| DDR3 SO-DIMM W/T  | Description                      |
|-------------------|----------------------------------|
| 79B00-G001-010-RS | DDR3 1333 1GB SO-DIMM CL9 128M*8 |
| 79B00-G002-006-RS | DDR3 1333 2GB SO-DIMM CL9 256M*8 |
| 79B00-G004-009-RS | DDR3 1333 4GB SO-DIMM CL9 256M*8 |

| DDR3 DIMM W/T     | Description                   |
|-------------------|-------------------------------|
| 79A00-G002-017-RS | DDR3 1333 2GB DIMM CL9 256M*8 |

# Drive Cage Standard 3.5" devices 5.25" Drive Bay Solutions

Following the traditional industrial system needs for stability, durability and toughness for storage drive operating condition, IEI provides various kinds of standard 3.5" devices 5.25" removable drive bay and modules for each different demands.

|                             | SATA / IDE / SSD Solution | SATA Solution            |  |
|-----------------------------|---------------------------|--------------------------|--|
| Model Name                  | XWC-410030507220-RS       | XWC-410030507230-RS      |  |
| Dimensions (L x W x H) (mm) | 150 x 146 x 42            | 150 x 146 x 42           |  |
| Material                    | Aluminum                  | Aluminum                 |  |
| Interface                   | SATA / IDE / SSD          | SATA / IDE / SSD         |  |
| Data Transfer Rate          |                           |                          | up to 300MB/Sec  |
| Drive Bay Space             | One 5.25" Device Bay      | One 5.25" Device Bay     | Meet PAC-400G  |
| HDD Type                    | Internal 3.5" device bay  | Internal 3.5" device bay | 3.5" SATA  |
| Cooling Fan                 |                           |                          | 4010 ball bearing  |
| Hot Swap                    | No                        | No                       | Yes  |
| Keylock                     | No                        | No                       | Yes  |
| Signal Out                  | No                        | No                       | One 15-pin power connector<br>Power on signal out (high)<br>HDD access signal out (high) |
| Color                       | Black                     | White                    | White / Black  |
| G.W.                        | 0.2kg                     | 0.2kg                    | 0.3kg  |

|                             | SATA Solution   |   |   |
|-----------------------------|---|---|---|
| Model Name                  | RHD-302SATA-RS  | RHD-403SATA-RS  | RHD-503SATA-R10   |
| Dimensions (L x W x H) (mm) | 220 x 148 X 85.8  | 220 x 148 X 127   | 220.0 x 147.0 x 127.0   |
| Material                    | Aluminum alloy  | Aluminum alloy  | Aluminum body w/ partial plastic  |
| Interface                   | SATA  | SATA  | SATA  |
| Data Transfer Rate          | up to 300MB/Sec   | up to 300MB/Sec   | up to 300 MB/sec (depending on hard drive speed)  |
| Drive Bay Space             | 2 x 5.25" drive bay for 3 x 3.5" HDD  | 3 x 5.25" drive bay for 4 x 3.5" HDD  | 3 x 5.25" drive bay for 5 x 3.5" HDD  |
| HDD Type                    | 3.5" SATA   | 3.5" SATA   | 3.5" SATA 1.5Gb/s or SATA 3Gb/s   |
| Cooling Fan                 | 8020 ball bearing (Removable)   | 8020 ball bearing (Removable)   | Detachable rear outtake fan w/ aluminum heat dispersion   |
| Hot Swap                    | Yes   | Yes   | Yes   |
| Keylock                     | No  | No  | No  |
| Signal Out                  | 3 x HDD power signal out (+5V, GND)<br>1 x Temperature overheat signal out (5V, GND)<br>1 x Fan fail signal out (5V, GND)<br>3 x HDD access signal out (+5V, GND)<br>1 x Reset signal out (High, GND) | 4 x HDD power signal out (+5V, GND)<br>1 x Temperature overheat signal out (5V, GND)<br>1 x Fan fail signal out (5V, GND)<br>4 x HDD access signal out (+5V, GND)<br>1 x Reset signal out (High, GND) | 5 x HDD power signal Out (+5V, GND)<br>1 x Temperature overheat signal out (5V, GND)<br>1 x Fan fail signal out (5V, GND)<br>5 x HDD access signal out (+5V, GND)<br>1 x Reset signal out (High, GND) |
| Color                       | Black bezel and silver housing  | Black bezel and silver housing  | Black bezel and silver housing  |
| G.W.                        | 1.0kg   | 1.3kg   | 2kg   |

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Industrial Computing Solutions

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Embedded Computing Solutions

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Power Supply / Peripherals

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Panel Solutions Introduction

# Drive Cage Standard 3.5" devices 5.25" Drive Bay Solutions

|                                    | SATA Solution   |  | IDE Solution  | SATA / IDE / SSD   |
|------------------------------------|---|--|---|--|
|                                    |   |  |   |  |
| <b>Model Name</b>                  | <b>RHD-101SATA-R10</b>                                | <b>RHD-104SATA-R10</b>                                     | <b>RHF-21-SATA-R10</b>  | <b>RHF-21-IDE-RS</b>   |
| <b>Dimensions (L x W x H) (mm)</b> | 135 x 101.6 x 25.6                                    | 170 x 146 x 41.3   | 151.5 x 102 x 25.7  | 151.5 x 102 x 25.7   |
| <b>Material</b>                    | SECC  | SECC   | SECC  | Plastic body with stainless steel 2.5" HDD bracket   |
| <b>Interface</b>                   | 7-pin SATA x 2  | 7-pin SATA x 4   | SATA  | IDE  |
| <b>Data Transfer Rate</b>          | Up to 600 MB/sec                                      | Up to 600 MB/sec   | No  | No   |
| <b>Drive Bay Space</b>             | One 3.5" Device Bay                                   | One 5.25" Device Bay                                       | Internal 3.5" device bay  | Internal 3.5" device bay   |
| <b>HDD Type</b>                    | 2.5" SAS or SATA I / II / III<br>1 x HDD/SSD          | 2.5" SAS or SATA I / II / III<br>4 x HDD/SSD               | 2.5" SATA HDD   | 2.5" IDE HDD   |
| <b>Cooling Fan</b>                 | Metal heat dispersion                                 | 2 x 40 mm rear outtake fan w/<br>aluminum heat dissipation | No  | No   |
| <b>Hot Swap</b>                    | Yes   | Yes  | Yes   | No   |
| <b>Keylock</b>                     | 2 x segment key lock                                  | No   | Yes   | No   |
| <b>Signal Out</b>                  | 1 x HDD power signal out<br>1 x HDD access signal out | 4 x HDD power signal out<br>4 x HDD access signal out      | 1 x Female connector<br>1 x SATA LED signal connector<br>1 x Power LED connector<br>1 x Key on/off connector<br>1 x Power/SATA ED connector<br>1 x Male connector | 1 x DC connector<br>1 x Power LED connector<br>1 x Access LED connector<br>1 x DC power on/off |
| <b>Color</b>                       | Black   | Black  | Black   | Black  |
| <b>G.W.</b>                        | 0.483kg   | 0.95kg   | 0.3kg   | 0.3kg  |
|                                    |   |  |   | 0.125kg  |

## FCD-301



- The most suitable USB cable for IEI's CPU boards
- Support standard 3.5" drive bay; 4-pin female connector to CPU boards' pin header; length: 60cm
- RoHS compliant
- Pin definition:

3.5" compact drive bay with USB port

| Pin 1 | Pin 2 | Pin 3 | Pin 4 |
|-------|-------|-------|-------|
| +5V   | Data- | Data+ | GND   |

## Ordering Information

| Part No.      | Description  |
|---------------|--|
| FCD-301[C]-RS | 3.5" compact drive bay with USB port, RoHS<br>[C] Color Code: B=Black, W=White |

## AS-35A / AS-25A / AS-25C



Anti-vibration Drive Kit

- Resistant to shocks and vibrations from all directions
- Support 2.5" HDD into 3.5" drive bay (AS-25A/ 25C)  
Support 3.5" HDD into 5.25" drive bay (AS-35A)
- Meets the following standards:
  - MIL-STD-810F 514.5C-1 standard
  - 5-20Hz, 1G peak to peak
  - 60-200Hz, 3G peak to peak
- RoHS compliant

## Ordering Information

| Part No.  | Description                                  |
|-----------|--|
| AS-35A-RS | 3.5" Drive Anti-vibration Kit, RoHS          |
| AS-25A-RS | 2.5" Drive Anti-vibration Kit, RoHS          |
| AS-25C-RS | Enhanced 2.5" Drive Anti-vibration Kit, RoHS |

## LCM-02G

## 16x2 LCD Message Module



LCM-02G in RACK-1151G  
1U rackmount chassis

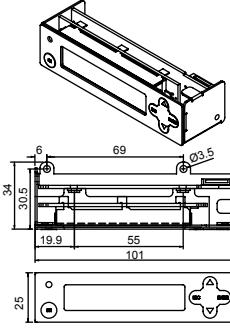
### Main Features



- RoHS compliant design
- One programmable welcome page
- Up to 8 messages auto rolling mode
- Adjustable back-light brightness
- Five programmable buttons  
(Four OSD buttons and One extra function button.)

### Dimensions

(measurement units: millimeter)



### Specifications

|                       |   |
|-----------------------|---|
| Character Number      | 16 characters x 2 lines                     |
| Character Size (WxH)  | 2.96 mm X 5.56 mm                           |
| Dot Size (WxH)        | 0.56 mm X 0.66 mm                           |
| Back Light            | Yellow green LED with adjustable brightness |
| LCD Size (WxH)        | 60mm x 15mm                                 |
| Buttons               | UP / DOWN / ESC / ENTER / FN                |
| Control Interface     | RS-232                                      |
| GPIO                  | 4   |
| Power                 | DC 5V                                       |
| Operating Temperature | 0~50°C                                      |
| Dimensions (WxHxD)    | 101mm x 25mm x 34mm                         |

### Packing List

|                      |             |
|----------------------|-------------|
|                      | 1 x LCM-02G |
| 1 x User manual      |             |
| 1 x Utility disk     |             |
| 1 x Power cable      |             |
| 3 x LED, reset cable |             |
| 1 x Screw set        |             |

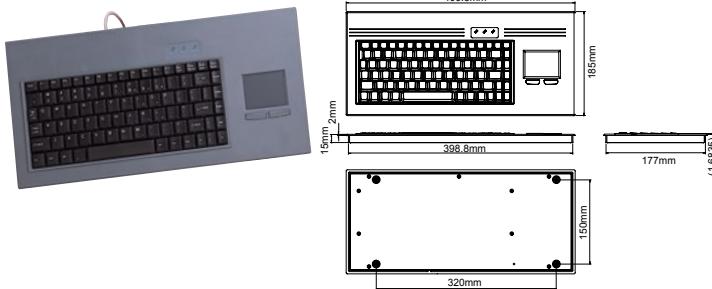
### Ordering Information

| Part No. | Description                     |
|----------|---------------------------------|
| LCM-02G  | 16 x 2 LCD Message Module, RoHS |

# Industrial Keyboard Series

| Industrial Keyboard Series |                          |                          |                    |                    |  |
|----------------------------|--------------------------|--------------------------|--------------------|--------------------|--|
|                            |                          |                          |                    |                    |  |
| Model Name                 | <b>KM-088G</b>           | <b>KM-088A-RS</b>        | <b>MK-KTP5A</b>    | <b>KBD-ACK-540</b> | <b>MK-KD1</b>  |
| Key Number                 | 88-key                   | 88-key                   | 105-key            | 88/89 key          |  |
| Mouse                      | Touchpad                 | Pointing Device          | Touchpad           | Touchpad           |  |
| Connector                  | PS/2 type 6-pin mini-DIN | PS/2 type 6-pin mini-DIN | 2 x PS/2 for KB/MS | 2 x PS/2 for KB/MS |  |
| Color                      | Black                    | Black                    | White              | White              |  |
| Waterproof                 | NA                       | IP-55                    | NA                 | NA                 | Standard 19" 1U height drawer<br>With keylock and handle,<br>compatible with KBD-ACK-540 |
| Dimensions (mm)            | D406.8 x W185 x H15      | D370 x W139 x H16        | D485 x W380 x H44  | D289 x W227 x H27  | D482.6 x W360 x H44  |

## KM-088G



88-key and Touchpad Module

### Main Feature

- Standard English keyboard layout
- Optional Japanese, German, French and Italian keyboard layout

### Ordering Information

| Part No.           | Description  |
|--------------------|--|
| <b>KM-088G - L</b> | L: Language Code EN: English JP: Japanese DE: German<br>FR: French IT:Italian CH:Chinese/English |

## KM-088A-RS



### Main Feature

- IP55 Compliant dirt-, dust- and water-resistance
- Compact design with super low profile for easy fitting into 1U rackmount
- Specifically designed for IPC, military, Medical and other applications

### Ordering Information

| Part No.          | Description  |
|-------------------|--|
| <b>KM-088A-RS</b> | 88 Keys IP55 Waterproof Keyboard with Point Device; RoHS.<br>Notes: For other language K/B, please contact region sales. |

## KBD-ACK-540

Mini 88/89 key PS/2 keyboard with touchpad



## MK-KTP5A

1U Rackmount Keyboard & Touchpad Drawer



### Ordering Information

| Part No.           | Description                                 |
|--------------------|---|
| <b>MK-KTP5A-RS</b> | 1U Rackmount Keyboard/Touchpad Drawer; RoHS |

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## MK-KD1

1U Rackmount Drawer



MK-KD1



MK-KD1 +  
KBD-ACK-540

### Ordering Information

| Part No.           | Description   |
|--------------------|---|
| <b>MK-KD1- [C]</b> | 1U Rackmount Drawer<br>[C]: Color Code: B=Black W=White |

# Cables and Connectors *FDD / HDD cable*

|                | FDD cable   | SATA HDD cable  |
|----------------|---|---|
|                |  |  |
| Model Name     | <b>32229-000100-100-RS</b>  | <b>32200-000058-RS</b>  |
| Cable type     | FDD flat cable  | FDD flat cable  |
| Connector      | 34p-34p-34p   | 34p-34p   |
| Connector type | 2.54 mm   | 2.54 mm-2.0 mm  |
| Length         | 37 cm + 15 cm   | 35 cm   |
|                |   |   |
| Model Name     | <b>32801-000703-200-RS</b>  |   |
| Cable type     | SATA HDD cable  |   |
| Connector      | SATA 7-pin  |   |
| Connector type | Lockable  |   |
| Length         | 50 cm   |   |

|                | SATA HDD cable                |                                       |                                       |                                       |
|----------------|-------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|
| Model Name     | <b>32102-000100-200-RS</b>    | <b>32000-080700-RS</b>                | <b>32801-000201-100-RS</b>            | <b>32801-000100-100-RS</b>            |
| Cable type     | SATA power cable              | SATA + Power cable                    | SATA + Power cable                    | SATA + Power cable                    |
| Connector      | 4-pin model + 2 x SATA 15-pin | SATA 7-pin + 4-pin model              | SATA 7-pin + 2-pin wafer 2.0mm        | SATA 7-pin + 4-pin wafer 2.54mm       |
| Connector type | SATA power connector          |                                       | 2-pin PH 2.0                          | 4-pin PH 2.54 mm                      |
| Length         | 15 cm                         | SATA cable 20 cm<br>Power cable 10 cm | SATA cable 15 cm<br>Power cable 15 cm | SATA cable 20 cm<br>Power cable 20 cm |

|                | IDE HDD cable          |                        |                        |                        |
|----------------|------------------------|------------------------|------------------------|------------------------|
| Model Name     | <b>32200-000005-RS</b> | <b>32200-000009-RS</b> | <b>32200-000037-RS</b> | <b>32200-025001-RS</b> |
| Cable type     | IDE HDD flat cable     |
| Connector      | 40p-40p-40p            | 44p-44p                | 44p-44p                | 44p-40p-40p            |
| Connector type | 2.54mm                 | 2.0mm -2.0mm           | 2.0mm -2.0mm           | 2.0mm-2.54mm-2.54mm    |
| Length         | 40 cm + 17 cm          | 40 cm                  | 25 cm                  | 20 cm + 15 cm          |

|                | IDE HDD cable          |                        |  |                    |
|----------------|------------------------|------------------------|--|--------------------|
| Model Name     | <b>32200-000052-RS</b> | <b>32200-008800-RS</b> | <b>CB-HD32-RS</b>                      | <b>CVT-4044-RS</b> |
| Cable type     | ATA-66 HDD flat cable  | ATA-33 HDD flat cable  | IDE HDD flat cable                     | IDE adapter        |
| Connector      | 40p-40p-40p            | 44p-40p-40p            | 40p-44p                                | 40p-44p            |
| Connector type | 2.54mm                 | 2.0mm-2.54mm-2.54mm    | 2.54mm-2.0mm                           | 2.54mm-2.0mm       |
| Length         | 30 cm + 15 cm          | 20 cm + 15 cm          | IDE cable: 39 cm<br>Power cable: 20 cm | Power cable: 20 cm |

Part numbers listed in the product catalog are for reference purposes. IEI reserves the right to implement substitution parts when the function is not affected.

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# Cables and Connectors *Paralle / Serial cable*

|                  | Paralle cable                     |   |   |                                  | Serial cable                    |
|------------------|-----------------------------------|---|---|----------------------------------|---------------------------------|
| Model Name       | 19800-000400-100-RS               | 19800-000142-00-RS  | 19800-000027-RS   | 32200-015100-RS                  | 19800-000300-100-RS             |
| Cable type       | Parallel port cable               | Parallel and serial port cable  | Parallel and serial port cable                                      | Parallel port cable              | Serial port cable               |
| Board side       | 26-pin (2x13) connector (2.54 mm) | 26-pin (2x13) connector (2.54 mm)<br>10-pin (2x5) connector (2.54 mm) | 26-pin (2x13) connector (2.0 mm)<br>10-pin (2x5) connector (2.0 mm) | 26-pin (2x13) connector (2.0 mm) | 10-pin (2x5) connector (2.0 mm) |
| Board side pitch | 2.54 mm                           | 2.54 mm   | 2.0 mm  | 2.0 mm                           | 2.0 mm                          |
| Device side      | DB25F                             | DB25F + DE9M  | DB25F + DE9M  | DB25F                            | DE9M                            |
| Bracket          | Yes                               | Yes   | Yes   | No                               | Yes                             |
| Length           | 24 cm                             | 24 cm   | 24 cm   | 28 cm                            | 30 cm                           |

|                  | Serial cable                     |                                  |                                      |                                      |                                     |                                  |
|------------------|----------------------------------|----------------------------------|--------------------------------------|--------------------------------------|-------------------------------------|----------------------------------|
| Model Name       | 19800-000114-RS                  | 19800-000047-RS                  | 19800-000051-RS                      | 19800-003600-100-RS                  | 19800-000112-RS                     | 32200-000015-RS                  |
| Cable type       | Serial port cable                | Serial port cable                | Serial port cable                    | Serial port cable                    | Serial port cable                   | Serial port cable                |
| Board side       | 10-pin (2x5) connector (2.54 mm) | 10-pin (2x5) connector (2.54 mm) | 2 x 10-pin (2x5) connector (2.54 mm) | 2 x 10-pin (2x5) connector (2.54 mm) | 2 x 10-pin (2x5) connector (2.0 mm) | 10-pin (2x5) connector (2.54 mm) |
| Board side pitch | 2.54 mm                          | 2.54 mm                          | 2.54 mm                              | 2.54 mm                              | 2.0 mm                              | 2.54 mm                          |
| Device side      | DE9M                             | DE9M                             | 2 x DE9M                             | 2 x DE9M                             | 2 x DE9M                            | DE9M                             |
| Bracket          | Yes                              | Yes                              | Yes                                  | Yes                                  | Yes                                 | No                               |
| Length           | 50 cm                            | 30 cm                            | 23 cm                                | 40 cm                                | 30 cm                               | 23 cm                            |

|                  | Serial cable                    |                                   |                                  |                                  |                                  |                                  |
|------------------|---------------------------------|-----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
| Model Name       | 32205-002700-100-RS             | 32205-001203-100-RS               | 32100-147900-RS                  | 32200-025401-RS                  | 32200-026800-RS                  | 19800-000058-RS                  |
| Cable type       | Serial port cable               | Serial port cable                 | Serial port cable                | Serial port cable                | RS-422/485 cable                 | RS-232 & RS-422/485 cable        |
| Board side       | 10-pin (2x5) connector (2.0 mm) | 40-pin (2x20) connector (2.54 mm) | 40-pin (2x20) connector (2.0 mm) | 40-pin (2x20) connector (2.0 mm) | 16-pin (2x8) connector (2.54 mm) | 14-pin (2x7) connector (2.54 mm) |
| Board side pitch | 2.0 mm                          | 2.54 mm                           | 2.0 mm                           | 2.0 mm                           | 2.54 mm                          | 2.54 mm                          |
| Device side      | DE9M                            | 4 x DE9M                          | 4 x DE9M                         | 4 x DE9M                         | 4 x DE9M                         | 2 x DE9M                         |
| Bracket          | No                              | No                                | No                               | No                               | No                               | Yes                              |
| Length           | 20 cm                           | 40/40/40/40 cm                    | 30 cm                            | 30 cm                            | 12 cm                            | 25.5 cm                          |

|                  | Serial cable                    |                                 |                                 |                                 |                                |
|------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|--------------------------------|
| Model Name       | 19800-004300-100-RS             | 32205-000300-100-RS             | 32205-003700-100-RS             | 19800-000063-RS                 | 32205-003800-100-RS            |
| Cable type       | RS-232 & RS-422/485 cable       | RS-422/485 cable               |
| Board side       | 14-pin (2x7) connector (2.0 mm) | 14-pin (2x7) connector (2.0 mm) | 14-pin (2x7) connector (2.0 mm) | 4-pin (1x4) connector (2.54 mm) | 4-pin (1x4) connector (2.0 mm) |
| Board side pitch | 2.0 mm                          | 2.0 mm                          | 2.0 mm                          | 2.54 mm                         | 2.0 mm                         |
| Device side      | 2 x DE9M                        | 2 x DE9M                        | 2 x DE9M                        | DE9M                            | DE9M                           |
| Bracket          | Yes                             | No                              | No                              | No                              | No                             |
| Length           | 25 cm                           | 29 cm                           | 23 cm                           | 40 cm                           | 20 cm                          |

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# Cables and Connectors *USB / 1394 / Y Cable*

| USB cable        |                                    |                                    |                                   |                                    |
|------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|
| Model Name       | 19800-000100-200-RS                | 19800-003100-200-RS                | 19800-003000-100-RS               | 32001-002700-200-RS                |
| Cable type       | USB cable                          | USB cable                          | USB cable                         | USB cable                          |
| Board side       | 2 x 4-pin (2x4) connector (2.54mm) | 2 x 4-pin (1x4) connector (2.54mm) | 1 x 8-pin (2x4) connector (2.0mm) | 1 x 8-pin (2x4) connector (2.54mm) |
| Board side pitch | 2.54mm                             | 2.54mm                             | 2.0mm                             | 2.54mm                             |
| Device side      | 4 x USB                            | 2 x USB                            | 2 x USB                           | 2 x USB                            |
| Bracket          | Yes                                | Yes                                | Yes                               | No                                 |
| Length           | 30 cm                              | 30 cm                              | 30 cm                             | 21 cm                              |

| USB cable        |   | 1394 cable                        |                                   |
|------------------|---|-----------------------------------|-----------------------------------|
| Model Name       | 32001-004600-100-RS   | 32001-008600-100-RS               | CB-IEEE1394-RS                    |
| Cable type       | USB cable   | USB cable                         | 1394 cable                        |
| Board side       | 2 x 5-pin connector (2.0mm)<br>for WAFER-8523, WAFER-945GSE3 only | 1 x 8-pin (2x4) connector (2.0mm) | 2 x 8-pin (1x8) connector (2.0mm) |
| Board side pitch | 2.0mm   | 2.0mm                             | 2.0 mm                            |
| Device side      | 2 x USB   | 2 x USB                           | 2 x IEEE1394                      |
| Bracket          | No  | No                                | Yes                               |
| Length           | 40 cm   | 21 cm                             | 21 cm                             |
|                  |   |                                   | 19800-000103-RS                   |

| Keyboard / Mouse cable |                                       |                                   |                      |                                       |
|------------------------|---------------------------------------|-----------------------------------|----------------------|---------------------------------------|
| Model Name             | 19800-000066-RS                       | 19800-000075-RS                   | 32006-000300-100-RS  | 32000-043301-RS                       |
| Cable type             | Keyboard and mouse cable              | Y-Cable                           | Y-Cable              | Y-Cable                               |
| Board side             | 2 x 5-pin (1x5) connector<br>(2.54mm) | 1 x 6-pin (1x6) connector (2.0mm) | 1 x male PS/2        | 1 x 6-pin (1x6) connector<br>(2.54mm) |
| Board side pitch       | 2.54mm                                | 2.0mm                             |                      | 2.54mm                                |
| Device side            | 2 x Female PS/2                       | 2 x Female PS/2                   | 2 x Female PS/2      | 2 x Female PS/2                       |
| Bracket                | Yes                                   | Yes                               | No                   | No                                    |
| Length                 | 30 cm                                 | 22 cm                             | 12 cm (KB) + 14 (MS) | 60 cm                                 |
|                        |                                       |                                   |                      | 32000-023800-RS                       |

| Power cable |                           |  |                           |                             |
|-------------|---------------------------|--|---------------------------|-----------------------------|
| Model Name  | 32100-087100-RS           | 32100-052100-RS                                    | 32102-005100-200-RS       | 32100-192900-RS             |
| Cable type  | 12V power cable           | ATX function cable                                 | 12V power cable           | 12V power cable             |
| Board side  | 1 x 4-pin (2x2) connector | 1 x 20-pin ATX power connector                     | 1 x 4-pin (2x2) connector | 1 x 4-pin (2x2) connector   |
| Device side | 2 x 4-pin (1x4) molex     | 1 x 4-pin (1x4) molex<br>1 x 3-pin PS_ON connector | with lock screw           | 4-pin 3.5 mm terminal block |
| Bracket     | No                        | No   | No                        | No                          |
| Length      | 13 cm                     | 30 cm  | 25cm                      | 25 cm                       |
|             |                           |  |                           | 32100-130300-RS             |

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# Cables and Connectors

## Audio / LAN / VGA / Adapter Cable

|                   | Audio cable   |                                |                                |
|-------------------|---|--------------------------------|--------------------------------|
|                   |   |                                |                                |
| <b>Model Name</b> | <b>19800-000043-RS</b>  | <b>19800-000800-100-RS</b>     | <b>19800-000111-RS</b>         |
| Cable type        | Audio and Serial cable  | Audio cable                    | Audio cable                    |
| Board side        | Audio cable: 4-pin (1x4) connector (2.54mm)<br>Serial cable: 10-pin (2x5) connector (2.0mm) | 12-pin (2x6) connector (2.0mm) | 10-pin (2x5) connector (2.0mm) |
| Board side pitch  | Audio : 2.54mm<br>Serial cable: 2.0mm   | 2.0mm                          | 2.0mm                          |
| Device side       | 2 x Audio jacks / 1 x DE9M  | 4 x Audio jacks                | 3 x Audio jacks                |
| Bracket           | Yes   | Yes                            | Yes                            |
| Length            | 30 cm   | 25 cm                          | 30 cm                          |

|                   | Audio cable                      |                                |                                |                                 |
|-------------------|----------------------------------|--------------------------------|--------------------------------|---------------------------------|
|                   |                                  |                                |                                |                                 |
| <b>Model Name</b> | <b>32207-000100-100-RS</b>       | <b>32007-002700-100-RS</b>     | <b>32000-072100-RS</b>         | <b>32000-028800-RS</b>          |
| Cable type        | Audio cable                      | Audio cable                    | Audio cable                    | Audio cable                     |
| Board side        | 10-pin (2x5) connector (2.54 mm) | 16-pin (2x8) connector (2.0mm) | 10-pin (2x5) connector (2.0mm) | 12-pin (2x6) connector (2.54mm) |
| Board side pitch  | 2.54 mm                          | 2.0mm                          | 2.0mm                          | 2.54mm                          |
| Device side       | 10-pin (2x5) dupon               | 3 x Audio jacks                | 3 x Audio jacks                | 4 x Audio jacks                 |
| Bracket           | No                               | No                             | No                             | No                              |
| Length            | 40 cm                            | 25 cm                          | 30 cm                          | 25 cm                           |

|                   | LAN cable                      | VGA cable                       |                                |
|-------------------|--------------------------------|---------------------------------|--------------------------------|
|                   |                                |                                 |                                |
| <b>Model Name</b> | <b>32000-055702-RS</b>         | <b>32000-033800-RS</b>          | <b>32000-033804-RS</b>         |
| Cable type        | LAN cable                      | VGA cable                       | VGA cable                      |
| Board side        | 10-pin (2x5) connector (2.0mm) | 10-pin (2x5) connector (2.54mm) | 10-pin (2x5) connector (2.0mm) |
| Board side pitch  | 2.0mm                          | 2.54mm                          | 2.0mm                          |
| Device side       | 1 x RJ-45                      | 1 x DB15F                       | 1 x DB15F                      |
| Bracket           | No                             | No                              | No                             |
| Length            | 31 cm                          | 30 cm                           | 30 cm                          |

Part numbers listed in the product catalog are for reference purposes. IEI reserves the right to implement substitution parts when the function is not affected.

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# Cables and Connectors

*Audio / LAN / VGA / Adapter / TV / Round Cable*

|                  | TV/HDTV-output cable             |                                  |                              |                                |                               |
|------------------|----------------------------------|----------------------------------|------------------------------|--------------------------------|-------------------------------|
| Model Name       | 19800-000056-RS                  | 32000-132000-RS                  | 32000-132100-RS              | 32010-000700-100-RS            | 32010-000400-100-RS           |
| Cable type       | TV-out cable                     | HDTV cable                       | HDTV cable                   | HDTV cable                     | HDTV cable                    |
| Board side       | 6-pin (2x3) connector (2.54mm)   | 1 x Mini-DIN 7-pin connector     | 1 x Mini-DIN 7-pin connector | 6-pin (2x3) connector (2.54mm) | 6-pin (2x3) connector (2.0mm) |
| Board side pitch | 2.54mm                           |                                  |                              | 2.54mm                         | 2.0mm                         |
| Device side      | 1 x RCA jack<br>1 x S-video jack | 3 x RCA jack<br>1 x S-video jack | 3 x RCA jack                 | 3 x RCA jack                   | 3 x RCA jack                  |
| Bracket          | Yes                              | No                               | No                           | No                             | No                            |
| Length           | 25 cm                            | 15 cm                            | 15 cm                        | 20 cm                          | 20 cm                         |

|                  | Round cable                       |                          |   |
|------------------|-----------------------------------|--------------------------|---|
| Model Name       | 32000-026800-RS                   | 32000-026900-RS          | 32100-047401-RS                         |
| Cable type       | ATA-66 HDD rounded cable          | ATA-66 HDD rounded cable | USB cable                               |
| Connector        | IDE 40p-40p                       | IDE 40p-40p              | 1 x 4-pin (1x4) wafer connector (2.0mm) |
| Board side pitch | 2.54mm                            | 2.54mm                   | 2.0mm                                   |
| Device side      | IDE 40-pin                        | IDE 40-pin               | 1 x 4-pin (1x4) connector (2.0mm)       |
| Length           | 75 cm                             | 45 cm                    | 50 cm                                   |
| Compatible model | RACK-115G, RACK-1151G, RACK-3200G | RACK-115G, RACK-1151G    | Front accessible USB port               |

Part numbers listed in the product catalog are for reference purposes. IEI reserves the right to implement substitution parts when the function is not affected.

## Rackmount Slide Chassis optional Accessories

|               | SLIDE                                    |  |                       |
|---------------|--|--|-----------------------|
| Model Name    | SLIDE-18                                 | SLIDE-24                                 | EXTENDER-6            |
| Specification | 18" rackmount slide                      | 24" rackmount slide                      | 6" extender           |
| Description   | For rackmount chassis w/ depth up to 500 | For rackmount chassis w/ depth up to 500 | For 18" or 24" slider |

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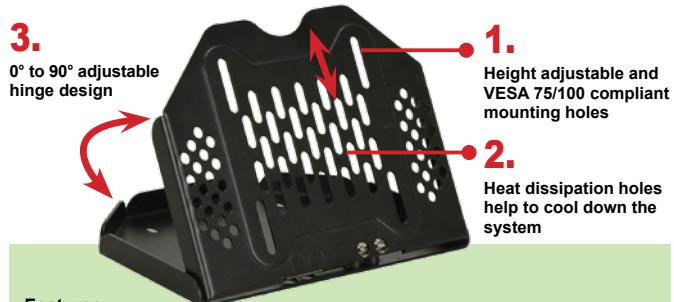
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# V-STAND

## VESA Multi-Mounting Stand.

IEI patented multi-mounting V-Stand allows wall, ceiling, desk, rear and side mounting to meet diverse applications. Its 0° to 90° adjustable hinge design provides optimal viewing in various environment, such as kitchen, room or shelf.

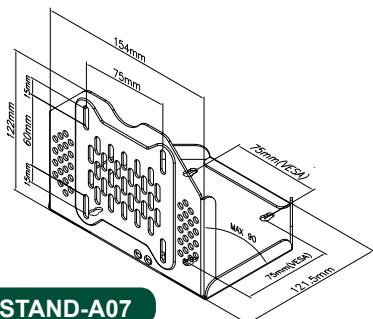
| VESA                    | Model      |
|-------------------------|------------|
| 75 x 75mm               | VSTAND-A07 |
| 75 x 75mm / 100 x 100mm | VSTAND-A10 |
| 75 x 75mm / 100 x 100mm | VSTAND-A12 |


**Features:**

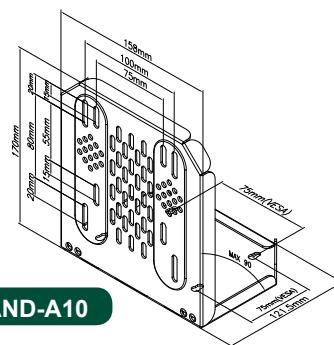
- 0° to 90° adjustable hinge design allows comfortable viewing
- Standard VESA 75/100 compliance
- Heat dissipation holes
- Compact size, easy to use in any places



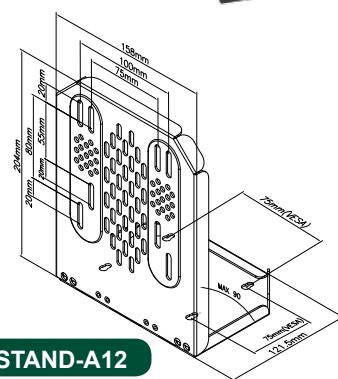
### Space saving and easy installation



VSTAND-A07



VSTAND-A10



VSTAND-A12

## Ordering Information

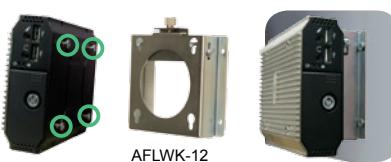
| Part No.   | Description   |
|------------|---|
| VSTAND-A07 | LCD monitor / PPC stand V type, for AFL series, VESA 75, 0~90 degree adjustable hinge, support up to 2.5 kg, RoHS     |
| VSTAND-A10 | LCD monitor / PPC stand V type, for AFL series, VESA 75/100, 0~90 degree adjustable hinge, support up to 3 kg, RoHS   |
| VSTAND-A12 | LCD monitor / PPC stand V type, for AFL series, VESA 75/100, 0~90 degree adjustable hinge, support up to 3.5 kg, RoHS |

# Wall Mounting

## VESA 75/100 Wall Mounting

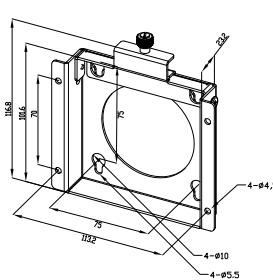
Secure the panel by fastening the retention screw of the bracket.

| VESA        | Model     |
|-------------|-----------|
| 75 x 75mm   | AFLWK-12  |
| 100 x 100mm | AFLWK-19  |
| 100 x 100mm | AFLWK-19B |

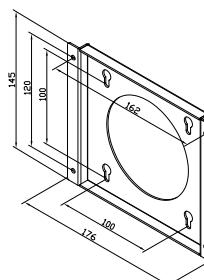


## Ordering Information

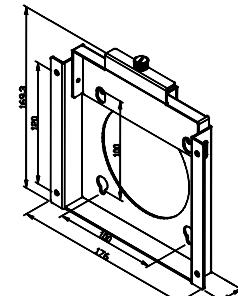
| Part No.  | Description  |
|-----------|--|
| AFLWK-12  | 5.6"~12" VESA 75 x 75mm PPC/monitor wall mount kit with retention screw, silver color, RoHS  |
| AFLWK-19  | 15"~19" VESA 100 x 100mm PPC/monitor wall mount kit, silver color, RoHS                      |
| AFLWK-19B | 15"~19" VESA 100 x 100mm PPC/monitor wall mount kit with retention screw, silver color, RoHS |



AFLWK-12



AFLWK-19



AFLWK-19B

1

Industrial Computing Solutions

2

Video Capture Solutions

3

Embedded Computing Solutions

4

Power Supply/Peripherals

5

Panel Solutions Introduction